

# UL mDL Reader ISO 18013-6 Test Suite

## Who is it for?

The UL mDL Reader ISO 18013-6 Test Suite is a powerful test tool available for developers and testers who need to test a mobile driver's license (mDL) reader application in a stable test environment in which repeatable tests can be performed.

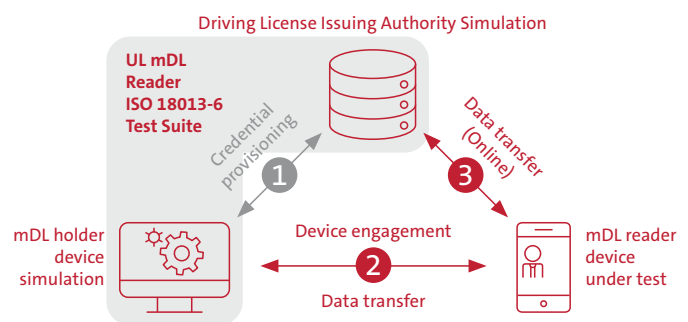
## Why do you need it?

With the UL mDL Reader ISO 18013-6 Test Suite, you can test your mDL reader application under development by simulating an mDL application to test compliance to ISO 18013-5 using the ISO 18013-6 test specification. The tool also allows you to validate the device retrieval (offline) and server retrieval (online) tests.

## What is inside?

The UL mDL Reader ISO 18013-6 Test Suite reuses the transport layer capabilities of any Android 10 handset to engage with and test the transfer of mDL credentials by the reader application from the test tool. The test tool connects to an Android application on the handset via Android Debug Bridge (ADB) to send and receive the test data to and from the device. The test tool runs an mDL Application and mDL Issuer simulation to perform the testing.

The tool supports full ISO 18013-6 device engagement testing via near field communication (NFC) or QR code and full ISO 18013-6 mDL credential transfer testing via near-field communication (NFC), Bluetooth® Low Energy (BLE) and Wi-Fi Aware™. The tool also tests support for elliptic curve public key infrastructure (PKI) cryptography used to secure and protect the transfer of mDL credentials.



## Key benefits

- Off-the-shelf test suite
- Easy-to-use and intuitive user interface
- ISO 18013-5 Interface 2 and 3 testing
- Device retrieval (offline) and server retrieval (online) tests
- Full ISO 18013-6 device engagement testing via NFC or QR code
- Full ISO 18013-6 mDL data transfer testing via NFC, BLE, Wi-Fi Aware and WebAPI over HTTPS TS v1.2 and 1.3
- Ability to share test results with other interested parties
- Support for elliptic curve PKI cryptography
- Test environment supports any Android 10 handset



## Specifications

### Supported features

- Full coverage of the ISO 18013-6 test specification
- Device engagement testing via NFC or QR code
- mDL data transfer testing via NFC, BLE, Wi-Fi Aware and WebAPI over HTTPS TLS v1.2 and 1.3
- mDL Application and mDL Issuer simulations
- Test connectivity from UL's Android proxy application using ADB
- Easy-to-read and configurable test results that can be saved and shared

### mDL interfaces

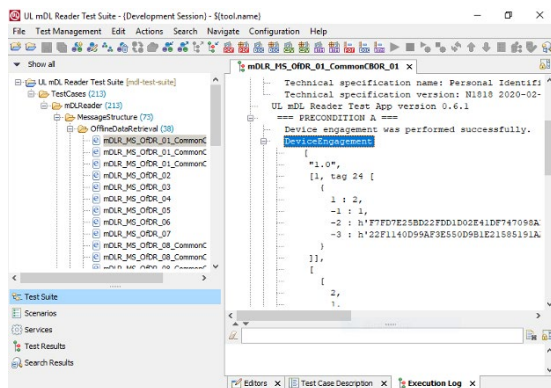
- Support for ISO 18013-5 Interface 2 and 3 testing

## UL Conclusion Test Manager

UL mDL Reader ISO 18013-6 Test Suite runs on UL Conclusion Test Manager (CTM). CTM is a user-friendly test management application that consists of a test engine that has the ability to create and send messages in many different variations via several interfaces to the system under test. An innovative test management system runs the entire test process, and provides easy-to-read and configurable test results.

## Hardware

The customer must provide an Android 10 handset for full testing coverage. However, if Wi-Fi Aware is not required a minimum of Android 7 can be used. No additional test hardware is required.



## Industry specifications supported

### ISO

- ISO/IEC 7816-3:2006
- ISO/IEC 7816-4:2013
- ISO/IEC 14443-2:2016
- ISO/IEC 14443-3:2016
- ISO/IEC 14443-3:2018
- ISO/IEC 14443-4:2018
- ISO/IEC 18004:2015
- ISO/IEC 18013-1:2018
- ISO/IEC 18013-2:2008
- ISO/IEC 18013-3:2017

### NFC

- NFC Forum, Bluetooth Secure Simple Pairing Using NFC, NFCForum-AD-BTSSP\_1\_2
- NFC Forum, Connection Handover
- NFC Forum, Technical Specification - NFC Data Exchange Format (NDEF)

### Wi-Fi Alliance

- Wi-Fi Alliance Neighbor Awareness Networking Technical Specification, Version 3.0

For your sales inquiries, please contact [imsecurity@ul.com](mailto:imsecurity@ul.com), visit [ims.UL.com](https://ims.UL.com), or contact one of our resellers.



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